

**Notice of Allowability**

Application No.

09/839,039

Examiner

Dwin M. Craig

Applicant(s)

RAMEAU ET AL.

Art Unit

2123

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4-15-2005.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 8-4-2005.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 4/14/2005
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**DETAILED ACTION**

**And**

**EXAMINER'S REASONS FOR ALLOWANCE**

1. Claims 1-37 are allowed.
2. The Examiner thanks the Applicants for correcting the Abstract and withdraws the earlier objection to the specification.
3. As regards dependent **Claim 20** the Examiner thanks the Applicants' for correcting the claim language and withdraws the objection to the claim.

**Examiner's Amendment**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Mahon Registration number 41,966 on 8-4-2005.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: In Figure 1, delete the reference number 101 and the indicated arrow(s). In Figure 2c, delete the reference number 209 and the indicated arrow(s). In Figure 6, remove the reference numbers 601, 602 and 603 and the indicated arrow(s). In Figure 12, remove the reference number 1203 and the indicated arrow(s). In Figure 14, remove the reference number 1301 and the indicated arrow(s). In order to avoid abandonment of the application, applicant

Art Unit: 2123

must make these above agreed upon drawing changes. The Examiner has provided a marked up copy of the drawings with red line indications of the changes required.

**Examiners Reasons for Allowance**

5. The following is an examiner's statement of reasons for allowance: The following limitations, in combination with other limitations are neither anticipated nor made obvious over the prior art. *"a method of industrialization that includes "computing a change in the first side and the second side using the selected draft angle, wherein the functional specification is maintained and the first side and second side meet on the parting surface."* The Examiner notes that Applicant persuasively argued that this limitation is not disclosed in the Liou et al. reference, US Patent 6,484,063, in response to the 35 USC 102(e) rejection previously presented by the Examiner. The Examiner notes that the argument presented by the Applicant is disclosed on page 19 of the 4-15-2005 responses. Further, the cited prior art fails to teach or make obvious the limitation, *"wherein the functional specification is maintained."* It is noted by the Examiner that Independent claims 1, 27, 28, 31 and 35 all contain this particular limitation.

5.1 As regards independent claim 26, the following limitations, in combination with other limitations are neither anticipated nor made obvious by the prior art, *"computing a change in the first side and the second side using the selected draft angle"* in combination with, *"the functional specification is maintained, and the first side and second side meet on the parting surface."*

5.2 As regards independent claim 34 the following limitations, in combination with other limitations are neither anticipated nor made obvious by the prior art, *"computation means for adding draft angle to the designate part while maintaining the functional constraints, the first*

Art Unit: 2123

*side and second side meet on the parting surface, a minimum amount of material is added to the designated part, and no sharp edges are generated on the designated part."*

5.3 Dependent claims 2-25, 29, 32, 33, 36 and 37 are allowed as they depend from an allowed base claim.

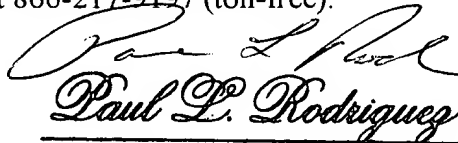
5.4 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwain M. Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo P. Picard can be reached on (571) 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Paul L. Rodriguez 8/5/05  
Primary Examiner  
Art Unit 2125



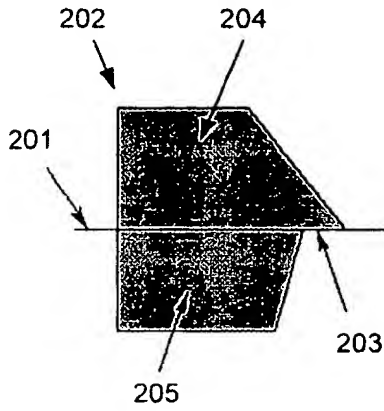


FIG. 2a

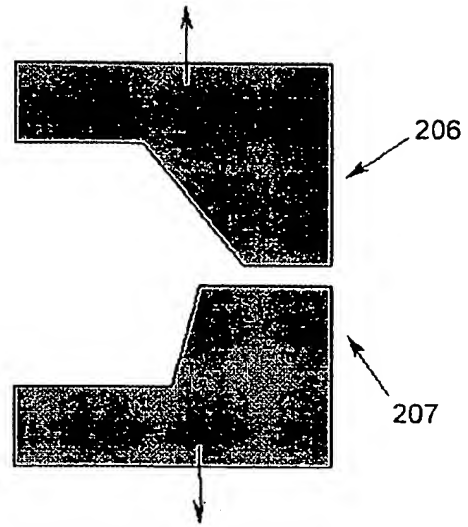


FIG. 2b

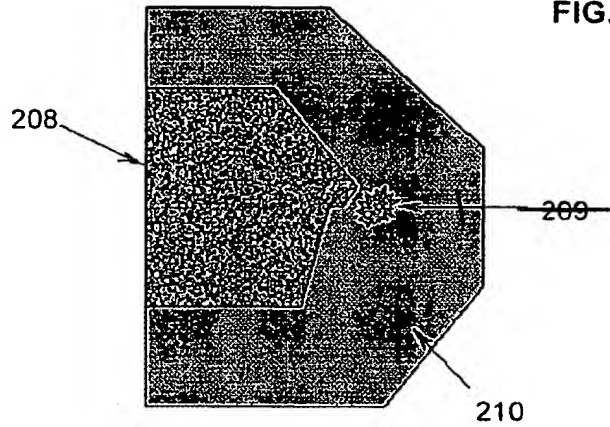
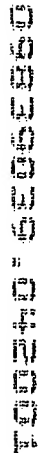


FIG. 2c



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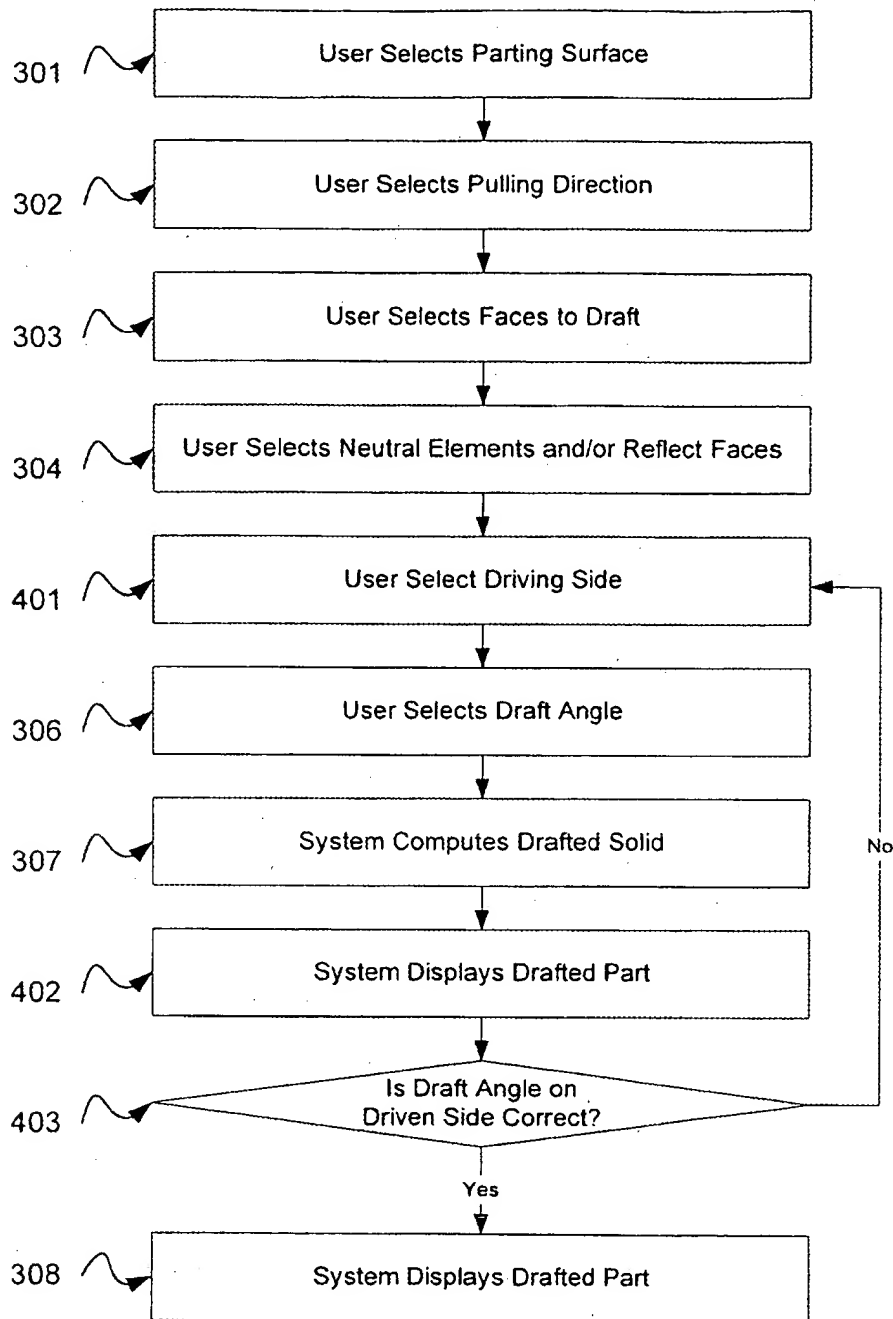


FIG. 4



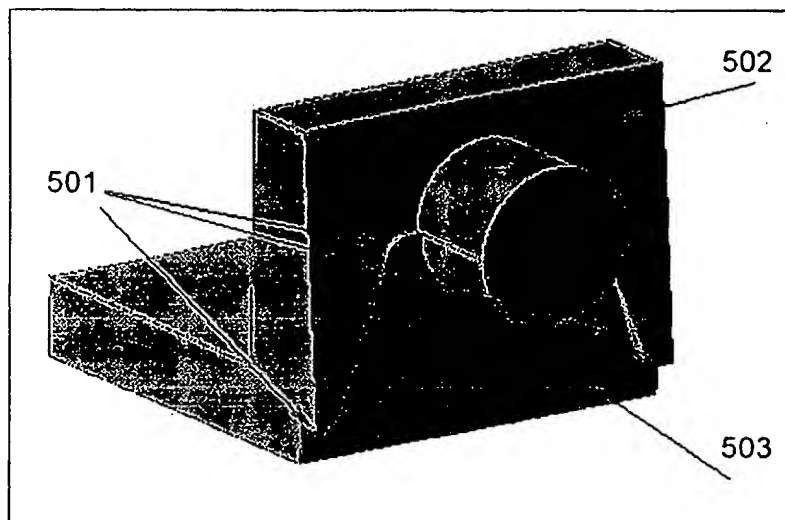


FIG. 5

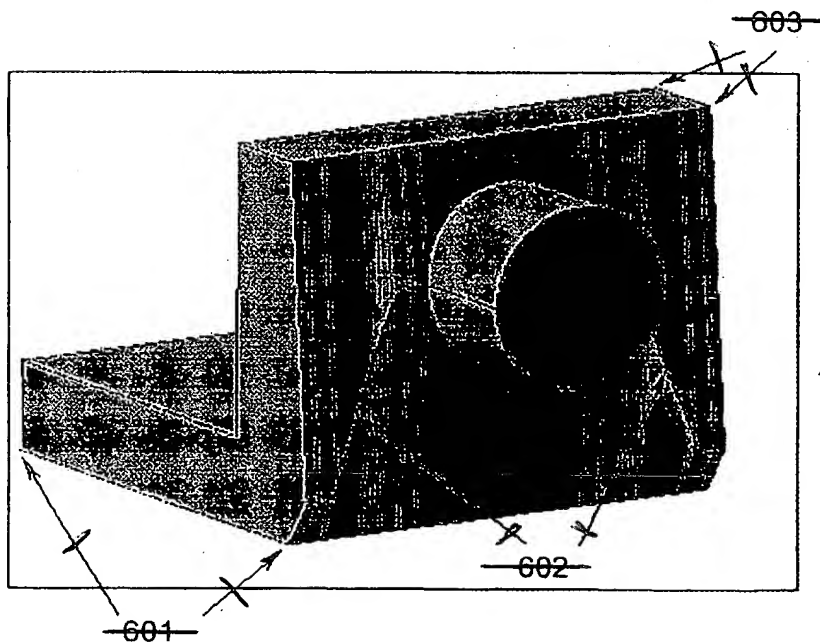


FIG. 6

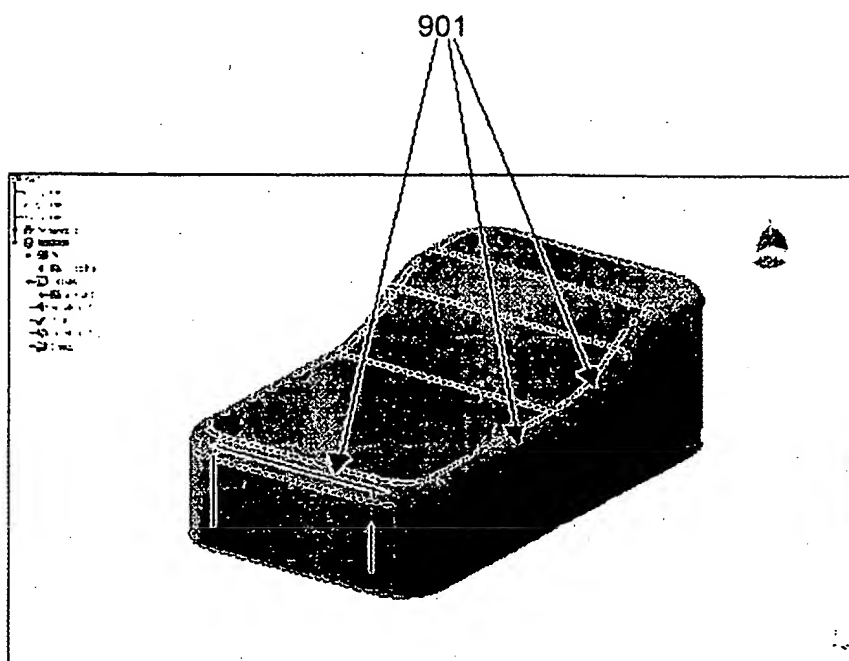


FIG. 9

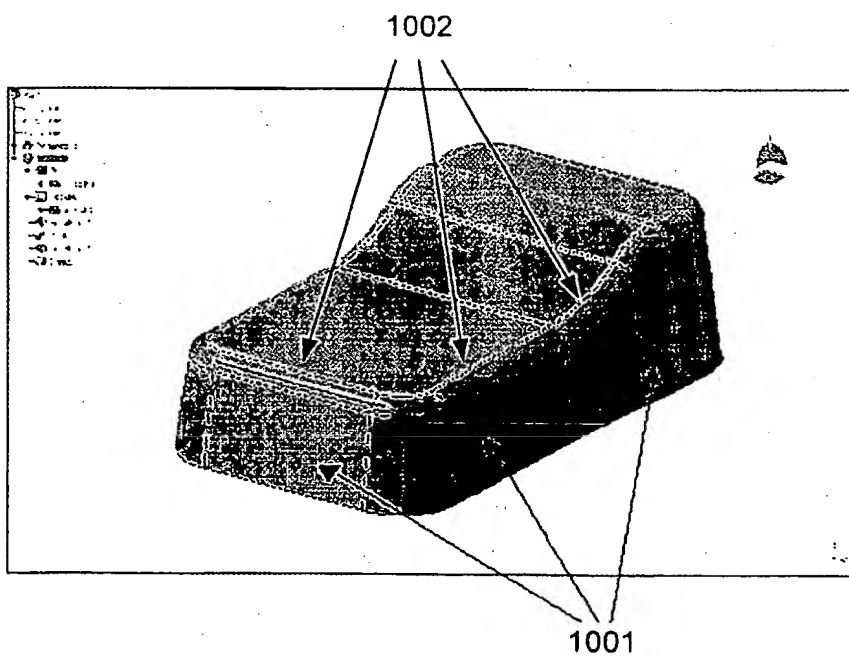


FIG. 10

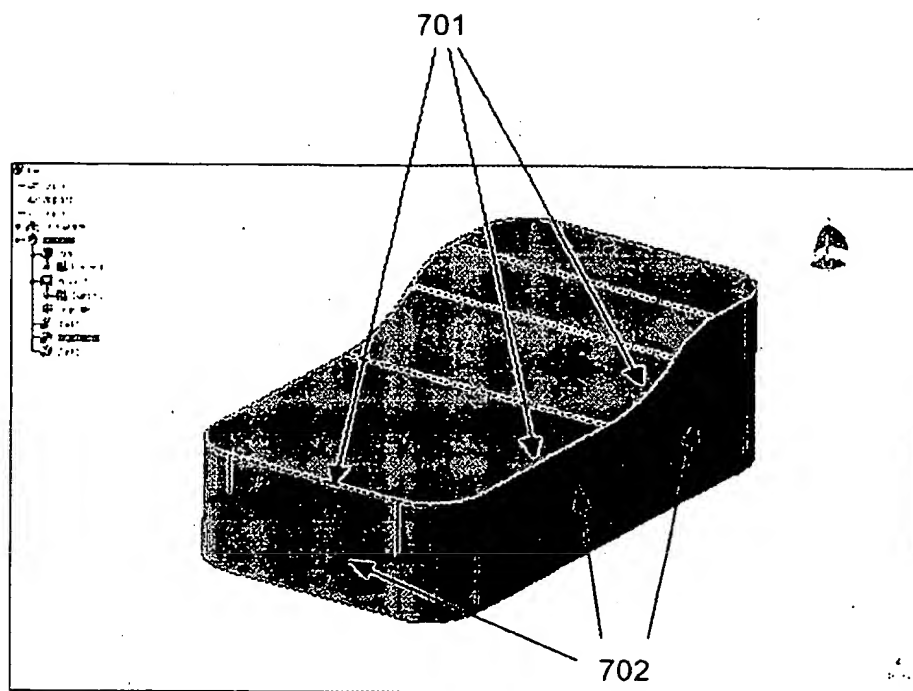


FIG. 7

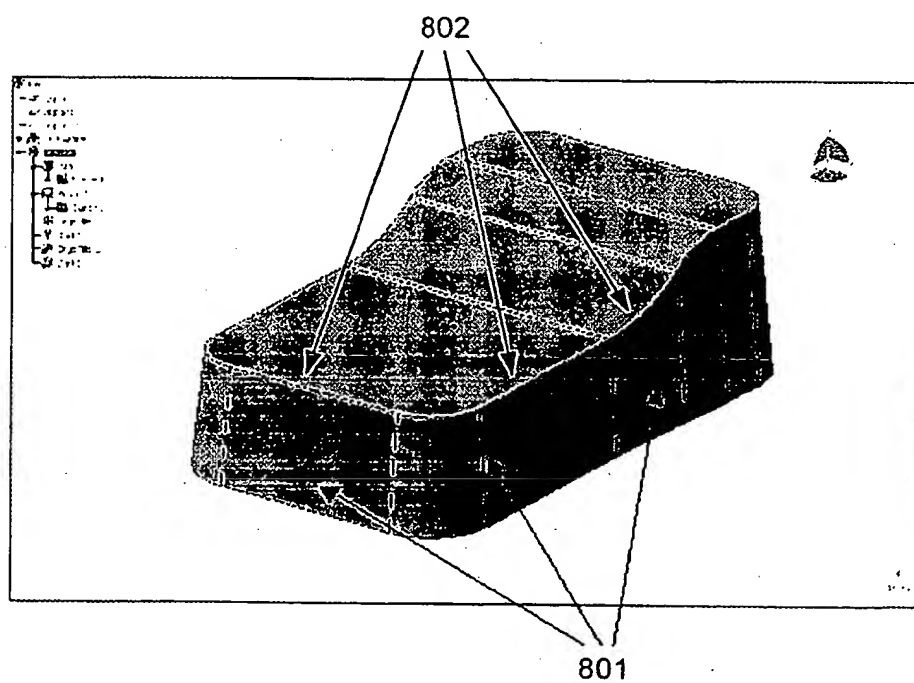


FIG. 8

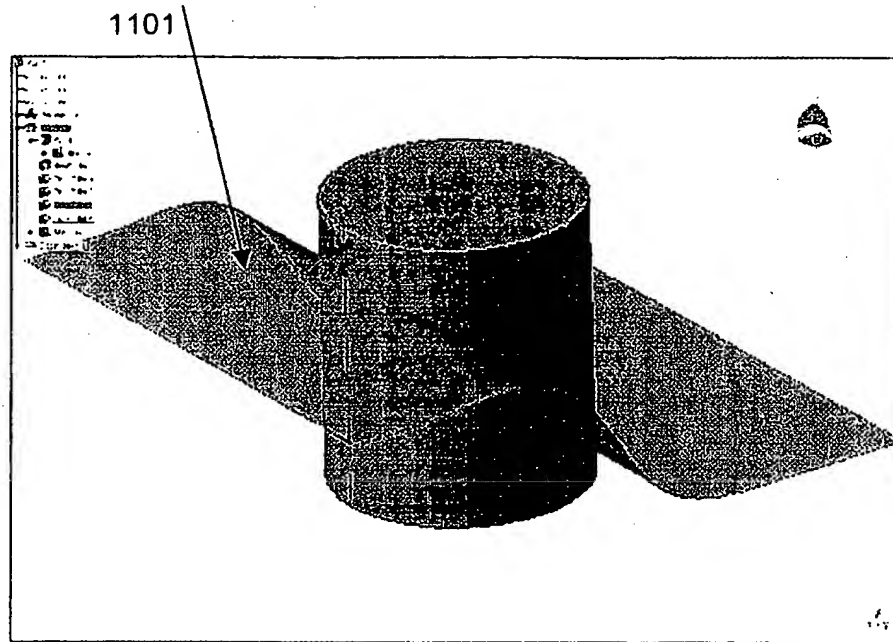


FIG. 11

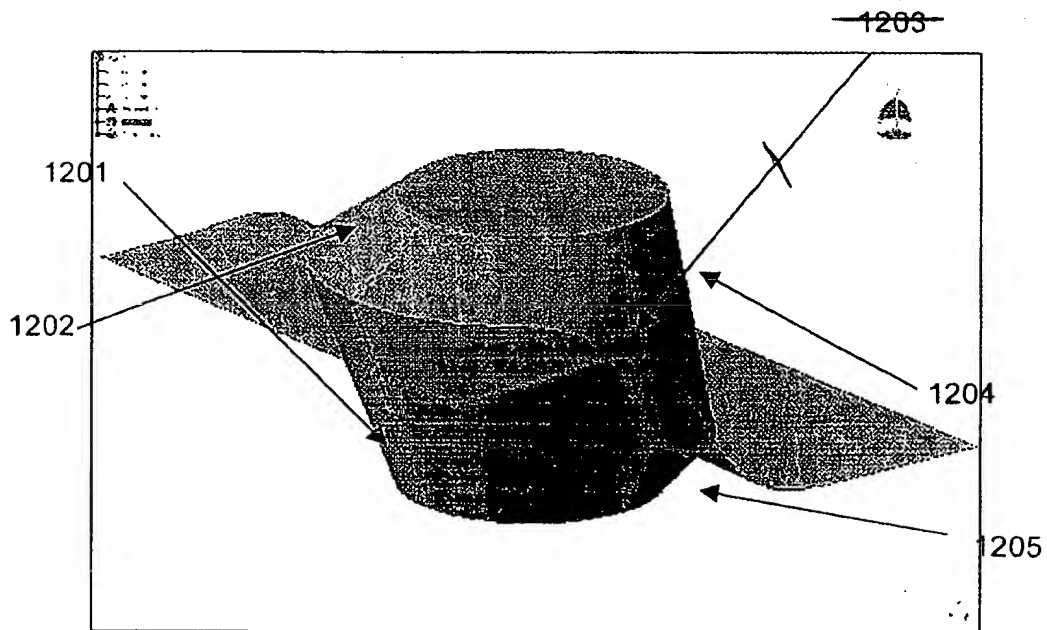
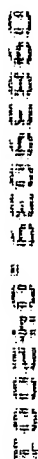
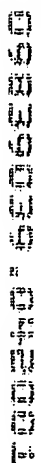


FIG. 12



**FIG. 13a**





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